

PROJECTS IN KANSAS, 1960

Beene, D. L., and Noever, R. J.

Sheet 1

Oil and Gas Investigations No.24

Cowley Counties)

PERSON COUNTIES

BON COUNTIES

- 695 - 43 43 - - - - - - - - - * 37
- - - 21 21 - - - - - - - - - * 38
- - - 70 70 - - - - - - - - - * 39

1000

Estimated secondary recovery 31,500
83,016

DATA ON SECONDARY RECOVERY PROJECTS IN KANSAS, 1960

By Goebel, E. D., Hilpman, P. L., Greene, D. L., and Noever, R. J.

State Geological Survey of Kansas

Oil and Gas Investigations No.24

Sheet 3

No.	Field	Operator	Producers	Location	Cooperative or unitized	Year started	Total developed acres	Producing formation	Thickness of producing zone, feet	Average depth to producing zone, feet	Piping	Piping	Total	No. producing wells drilled in 1960	No. active injection wells, 1960	No. injection wells drilled in 1960	Source of water	Average daily production per well, 1960	Cumulative secondary oil recovery per acre, 1960	Attributable to secondary recovery in 1960, bbls.	No.	
150	Fox-Bush	Blair	"Bartlesville"	14,22,23-29- 52	-	1956	-	"Bartlesville"	- 2,780	- 17	-	-	-	-	-	-	-	-	-	150		
151	do	do	Naden	13,14-29-52	-	1958	-	do	- 2,790	- 8	6	-	-	-	-	-	-	-	-	151		
152	do	Eckland Drilg. Co.	Kingsley	24-28-52	No	-	-	do	-	-	6	-	-	-	-	-	-	-	-	152		
153	do	Mobil Oil Co.	North Fox-Bush Unit	23,24,25,26,	Unit.	1961	888	do	- 2,800	0	16	16	0	15	0	0	0	0	42,000	153		
154	do	Harrison	Fox Unit No. 1	13,12,15-29- 52,18-29-62	Unit.	1943	585	do	26 2,800	0	39	39	3	35	0	0	do	Wreford	140	2,250	104,688	154
155	Garden	Strin	Mississippian	29-26-68	-	1968	-	"Bartlesville"	- 2,780	- 2	2	-	-	-	-	-	-	-	-	155		
156	Haverhill	Cities Service Oil Co.	Haverhill	15,22,27-54	Unit.	1949	180	"Bartlesville"	30 2,700	0	19	19	1	8	0	0	0	Arbuckle and Produced	200	-	42,000	156
157	Hazlett	Bex and Morris	Flickinger Unit	30,31-23-52	-	1958	-	Conglomerate	- 2,450	- 26	26	-	-	-	-	-	-	-	-	157		
158	Hockey Creek	Kadel and Guzman	Hickory Creek Unit	11,14-28-52	Unit.	1967	-	do	-	-	15	-	-	-	-	-	-	-	-	158		
159	Keighley	Franco-Central	Lucas	6-27-52	-	1956	-	do	- 2,721	- 4	4	-	-	-	-	-	-	-	159			
160	Kramer-Stern	Strin	Stern	27,28,35- 36	-	1959	-	Viola	- 3,076	- 9	9	-	-	-	-	-	-	-	160			
161	do	Taxco, Inc.	F. Tabing	24-27-52	-	1952	20	do	16 3,100	0	1	1	0	1	0	0	Salt water	Produced	80	-	5,150	161
162	Lees	Staats	Snowgrass	19-27-52	-	1955	-	"Bartlesville"	- 2,690	- 6	6	-	-	-	-	-	-	-	162			
163	do	do	Staats-Bellier Unit	19,20-27-62	-	1958	-	do	- 2,700	- 11	11	-	-	-	-	-	-	-	163			
164	McCaig	Augusta Oil	McCaig	13-28-52	-	1959	-	do	- 2,718	- 2	2	-	-	-	-	-	-	-	164			
165	Mt. Tabor	Stelbar Oil Corp.	Stelbar	25,26,35-29- 52	-	1957	-	do	- 2,760	- 10	10	-	-	-	-	-	-	-	165			
166	Muddy Creek	Butler	Fresh	7-23-52	-	1959	-	do	- 2,750	- 5	6	-	-	-	-	-	-	-	166			
167	do	Gross Producing	Stewart	6-25-52	-	1958	50	do	12 2,700	0	4	4	0	1	0	0	Salt water	Kansas City	100	178	6,512	167
168	do	Stelbar	Muddy Creek Unit	7-25-52	-	1959	-	do	- 2,800	- 15	15	-	-	-	-	-	-	-	168			
169	Potwin	Potwin	Potwin	22,23,24-52	-	1956	-	Mississippian	- 2,700	- 5	5	-	-	-	-	-	-	-	169			
170	Sayens-McShaffer	Dunn and Stewart	Brassey	8-27-62	-	1957	-	do	- 2,760	- 2	2	-	-	-	-	-	-	-	170			
171	do	do	Slues	6-27-62	-	1954	-	"Bartlesville"	- 2,710	- 4	4	-	-	-	-	-	-	-	171			
172	do	Kaiser	Doughty-McLean	5-27-62	-	1954	-	do	- 2,700	- 6	6	-	-	-	-	-	-	-	172			
173	do	Mohawk Oil Co.	Doughty-Palmer	6-27-62	-	1954	-	do	- 2,700	- 5	5	-	-	-	-	-	-	-	173			
174	Smock-Sluss	Burton Oil Producing Co.	Falkenburg	2-27-52	-	1953	-	do	- 2,700	- 2	2	-	-	-	-	-	-	-	174			
175	do	Inger	Slus	1-27-52	-	1953	-	do	- 2,700	- 6	6	-	-	-	-	-	-	-	175			
176	do	Bart L. Lebow	Slus	26-28-52	No	1954	60	"Bartlesville"	20 2,760	- 2	2	0	1	0	0	0	Salt water	Produced	150	1,000	6,000	176
177	do	do	Slus	25-26-52	-	1953	-	do	- 2,800	- 7	8	-	-	-	-	-	-	-	177			
178	do	Morris	Dean	17-26-52	-	1956	-	do	- 2,710	- 3	3	0	2	0	0	0	Salt water sand	265	3,089	11,615	178	
179	do	Smoky Oil Co.	Dean	23,24,26-52	Coop.	1950	40	do	- 2,700	- 5	6	0	1	0	0	0	do	Produced	705	-	4,617	179
180	do	Taxco, Inc.	C. A. Sneed	14,23-52	-	1951	70	do	- 2,700	- 5	6	0	1	0	0	0	do	Arbuckle	50	0	0	180
181	Snowen-McSweeney	Peloton Oil Corp.	Snowen-McSweeney	4,9-29-62	Both	1960	573	do	18 2,810	0	39	39	1	39	1	0	do	-	-	-	181	
182	do	Geering	Smith	34-28-65	-	1957	-	Mississippian	- 2,840	- 2	2	-	-	-	-	-	-	-	-	182		
183	do	Rex and Morris	do	34-28-65	-	1959	-	"Bartlesville"	- 2,840	- 3	3	-	-	-	-	-	-	-	-	183		
184	do	do	do	36-28-62	-	1958	-	do	- 2,800	- 13	13	-	-	-	-	-	-	-	-	184		
185	do	Earl F. Hausefield	Snowen-McSweeney	9-29-62	Coop.	1960	0	do	17 2,800	0	14	14	2	10	0	0	0	Arbuckle	176	0	0	185
186	Steinhoff	Geering-Herrick	Steinhoff	21-29-62	-	1955	-	Kansas City	- 2,700	- 2	2	-	-	-	-	-	-	-	-	186		
187	Towanda	Keweenaw	Towanda Pres. Maint. Proj.	5-26-42	-	1954	-	Viola	- 2,745	- 7	7	-	-	-	-	-	-	-	-	187		
188	Young	Morris, et al.	Young	29-26-75	-	1957	-	Mississippian	-	-	-	-	-	-	-	-	-	-	-	188		
189	Combs	Keweenaw Oil Co.	Dillard	32,33-29-58	-	1954	270	"Bartlesville"	9 2,830	0	11	11	0	9	0	0	Salt water	Shallow well	172	1,019	* 189	
190	Couzon and Fox-Bush	Stelbar Oil	Couch	4,5-30-58	-	1957	-	do	- 2,800	- 9	9	-	-	-	-	-	-	-	-	190		
191	Blankenship	Tidewater Oil Co.	Blankenship Pool	10,16,17, 21-26-82	Coop.	1949	609	"Bartlesville"	33 2,450	0	20	20	0	17	0	0	Salt water	Arbuckle	95	2,580	21,800	191
192	Taeter	Jackman and Jackman	Leedy	25-22-95	-	1955	-	"Bartlesville"	- 2,800	- 2	2	-	-	-	-	-	-	-	-	192		
193	do	Sunray Oil Corp.	do	25-22-95	-	1958	-	do	- 2,870	- 9	9	-	-	-	-	-	-	-	-	193		
194	Borroum	Patterson	Borroum	20-24-95	-	1959	-	"Oswego"	- 1,770	- 6	6	-	-	-	-	-	-	-	-	194		
195	Biglin	Dilling	Dilling	32,33-24-102	-	1959	-	"Peru"	- 1,546	- 5	5	-	-	-	-	-	-	-	-	195		
196	do	Goering-Herrick	Cookins	9-25-102	-	1958	-	do	- 1,525	- 1	1	-	-	-	-	-	-	-	-	196		
197	do	do	Hewitt	14-34-102	-	1958	-	do	- 1,400	-	1	-	-	-	-	-	-	-	-	197		
198	do	do	Layton	34-34-102	-	1958	-	do	- 1,550	-	4	-	-	-	-	-	-	-	-	198		
199	do	do	Williams-Sweeney	15-35-102	-	1957	-	do	- 1,275	- 4	4	-	-	-	-	-	-	-	-	199		
200	do	St. Louis Oil Corp.	Wright	15,14-29-98	No	1959	-	"Wayne"	18 1,700	0	8	0	1	0	0	0	Salt water	Return water	60	-	200	

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v. 24

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DATA ON SECONDARY RECOVERY

By Goebel, E. D., Hilpman, P. L.,

State Geological Survey of Kansas

(Includes Allen th)

No.	Field	Operator	Project	Location	Cooperative or unitized	Year started	Total developed acres	Producing formation
ALLEN								
1	Bronson-Xenia	Ray Beers, Jr.	Southeastern Co.	4-25-21E	-	1956	110	"Bartlesville"
2	do	Mack C. Colt	K-B Project	22, 27, 28, 33- 24-21E; 15- 24-21E	No	1951	-	do
3	Davis-Bronson	Jackson	Dawson Farm	15-24-21E	Unit.	1959	20	do
4	do	Steiner Drilg. Co.	Steiner	15-24-21E	do	1959	60	do
5	Elsmore-Shoestring	George Norris	Elsmore Shoestring	10, 15-26-21E	-	1941	-	do
6	do	Schermerhorn Oil	Trask and Gray	16-26-21E	-	1944	-	do
7	Elsmore West	Deerfield Oil Corp.	Young and Newby	32-25-21E	-	1950	-	do
8	Humboldt-Chanute	Aylward	Humboldt	20, 29, 30-26- 18E	-	1952	-	-
9	do	do	do	4, 5, 8-26-18E	-	1951	-	-
10	do	Aylward and Willis	Humboldt Unit	15, 16, 21, 22- 26-18E	-	1952	-	-
11	do	Big Chief Drilg. Co.	Wolf	16, 17, 20, 21- 26-19E	Unit.	1957	680	"Bartlesville"
12	do	Creek Oil and Gas	Henrichs	22-26-18E	No	1958	27	do
13	do	Faulkner	Callahan-Whitaker	19-26-19E	-	-	-	-
14	do	Gamble, et al.	Wolfe-Benson	24-26-17E; 19-26-18E	-	1953	-	"Bartlesville"
15	do	Gidley	Diamond-Shelton	16-26-19E	-	1952	-	do
16	do	General American Oil Co. of Texas	Matson	16, 17, 18, 19, 20-26-18E	-	1938	522	do
17	do	Great Western Drilg. Co.	Hauser	18-26-18E	-	1951	-	-
18	do	do	Humboldt	13, 14, 23, 24- 26-18E	-	1942	-	"Bartlesville"
19	do	H-R-S Oil Co.	Knox-Wedin	18, 19-26-20E	-	1953	-	do
20	do	Johnstones	Hoepker-McCormick	11, 16, 17-26- 19E	-	-	-	-
21	do	Jones and Campbell, Inc.	Butts Lease	17-26-19E	-	1960	20	"Bartlesville"
22	do	do	Hendricks-Koepker	11, 14-26-19E	-	1959	60	do
23	do	do	McCormick	16-26-19E	-	1959	40	do
24	do	do	Monarch Unit	9-26-18E	-	1960	40	do
25	do	Oilfield Management	Campbell	29-26-20E	-	1958	-	-
26	do	Sinclair Oil and Gas	Iola Air and Gas Repressure	21, 22, 28-25- 18E	-	1955	-	"Bartlesville"
27	do	C. A. Willis	Hoepker	25-26-18E	-	1953	-	do
28	do	C. A. and Roy Willis	Krouse	36-26-18E	-	1957	-	do
29	do	do	Yount	25-26-18E	-	1957	-	do
30	Iola	J. A. Aylward	Monfort Block	10, 15, 22-24- 18E	-	1956	-	do
31	do	Marvin E. Boyer Oil Co.	Boyer No. 1 Unit	33, 34-23-18E; 4-24-18E	-	1960	90	"Squirrel"
32	do	Joey Drilg.	Iola	14, 15-25-19E	-	1959	-	"Bartlesville"
33	do	Scoville	Bartlesville Sand	15-24-18E	-	1957	-	do
34	do	Star Producers, Inc.	Lorance Farm	21-24-18E	Unit.	1959	80	"Squirrel Sand"
35	Moran	A. P. Brigham, Jr.	B-B-L Oil Producers	34, 35-24-20E	No	1958	-	"Bartlesville"
1,549								
ALLEN AND AND								
36	Colony West and Iola	Mack C. Colt	Colony Unit	5, 9, 15, 16, 21, 22, 27, 34-23-18E; 4-24-18E	-	1955	-	"Squirrel"
ALLEN AND BOU								
37	Bronson-Xenia	Davis and Crowder	Jones-Bartlett	26, 34-24-21E; 3-25-21E	-	-	-	"Bartlesville"
38	do	Davis Supply	Bucks-Clemmings	26, 34-24-21E	-	-	-	-
39	Davis-Bronson	Mack C. Colt	M-T	3, 10, 14, 15-24-21E	-	1957	-	-
ALLEN AND NE								
40	Humboldt-Chanute	Deerfield Oil Corp.	MFA Unit	36-26-18E; 1-27-18E	-	1959	170	"Bartlesville"
41	do	Keas Drilling Co., Inc.	K-T Unit	4-27-18E; 32, 33-26-18E	Coop.	1955	148	do
42	do	Willis	Seefeldt	3-27-18E; 34-26-18E	-	1955	-	do

LIBRARY

Y PROJECTS IN KANSAS, 1960

Beene, D.L., and Noever, R.J.

ru Morris Counties)

Sheet 3

Oil and Gas Investigations No. 24

DATA ON SECONDARY RECOVERY PROJECTS IN KANSAS, 1960

State Geological Survey of Kansas

By Goebel, E.D., Hilpman, P.L., Boone, D.L., and Noever, R.J.

Sheet 3

Oil and Gas Investigations No. 24

No.	Field	Operator	Co. Op.	Location	Operating Company	Year started	Total de- veloped wells	Producing formation	Thickness of formation, ft. Average depth of producing wells, ft. Average depth of wells, ft. Placing	Surplus	Total	No produc- ing wells in 1960	No active wells in 1960	No idle wells in 1960	Medium of injection	Source of water	Average bbls. water lifted per day	Cumulative secondary recovery in 1960, bbl.	Production attribution to secondary recovery in 1960, bbl.	No.			
									(Includes Crawford thru Morris Counties)														
306 "Houston"	Golden	Houston		3-31-228	-	No	1953	480	"Bartlesville"	40	200	-	39	39	0	-	-	-	-	-	308		
309 Modena	Bud Oil Co.	Bud Oil Co.		5-7-50-223	-	No	1952	-	do	-	-	-	129	129	-	-	-	-	-	509			
310 do	General Oil and Gas	Modena		1-30, 31-50-220	-	No	1952	-	do	-	-	-	-	-	-	-	-	-	-	310			
311 St. Paul-Walnut	Cooper	Bundy		36-28-212	-	No	1958	-	"Bartlesville"	-	400	-	12	12	-	-	-	-	-	-	311		
312 do	Walters Drilg. Co.	O'Brien		35-28-212	No	1955	30	do	20	400	0	4	0	4	0	0	0	0	1,400	312			
313 Walnut-Southeast	Walnut	Walnut		35-28-223	-	No	1957	-	do	-	-	-	28	28	-	-	-	-	-	313			
314 do	General American Oil	Walnut		27,28-28-223	No	1951	149	do	12	585	0	40	40	35	63	0	0	0	11	324,10,485	314		
315 do	Osage Petroleum	Phillips Air Express, Proj.		28-28-222	-	No	1956	-	do	-	360	-	8	8	-	-	-	-	-	-	315		
316 do	Walters Drilling	Bollinkens-Wintjen		26,27-28-223	No	1960	15	do	20	380	0	4	0	6	0	0	0	0	17	160,600	316		
							674													19,700	32,345		
317 Pollnow	Anderson-Pritchard Oil Co.	Pollnow Unit		4,5,8,9-3-298	Unit.	1960	1,100	Lans.-K.C.	4	3,740	0	15	15	2	1	0	0	0	Dakota Sand	\$18	0	0	317
318 Lost Springs	McPherson	Lost Springs		3,10-17-48; 27,35,36-18-43	-	1958	-	Mississippian	-	2,300	-	-	44	-	-	-	-	-	-	-	318		
319 Baldwin	Russel Hayes	Baldwin		9-15-202	-	1950	-	"Squirrel"	-	840	-	-	2	-	-	-	-	-	-	-	319		
320 Enlow	Natural Gas and Oil Co.	Enlow Unit		4,9-24-168	Coop.	1956	140	Lans.-K.C. Lime	6	3,740	0	5	5	0	2	0	0	0	Lans.-K.C. and Topeka	245	279	13,790	320
321 Bush-Denton	Elk Petroleum	Kysor A		9,10-30-92	-	1966	-	Mississippian "Lime"	-	2,875	-	18	18	-	-	-	-	-	-	-	321		
322 Hale-Engs	Union Gas System	Ings Group		27,34-31-122	-	1958	-	Longton Shallow Sand	-	670	-	-	-	-	-	-	-	-	-	322			
323 New Albany	C. F. Jones	Manderscheid		9-20-132	No	1960	-	New Albany Sand	9	610	0	4	4	0	1	0	0	New Albany	40	-	-	323	
324 Sam's-Shutts	Tys	Hall-Windholz		2,8-12-178	-	1960	-	Arbuckle	-	3,680	-	6	6	-	-	-	-	-	-	-	324		
325 Catherine	Gleibler	Gleibler		10-15-178	-	1960	-	Kansas City	-	3,300	-	1	1	-	-	-	-	-	-	-	325		
326 Catherine Northwest	Boss	Water Unit		1-1,3-178	-	1955	-	Lans.-K.C.	-	3,405	-	5	5	-	-	-	-	-	-	-	326		
327 Crook	Leslie Oil, et al.	Crook		1-15-11-188	-	1957	-	Kansas City	-	3,425	-	5	5	-	-	-	-	-	-	-	327		
328 Deeshardt	Tenneco Oil Co.	Deeshardt		10,15-10-178	No	1959	35	Lans.-K.C.	10	3,425	0	2	0	1	0	0	0	0	Arbuckle	98	131	4,602	328
329 Drilling	The Atlantic Refining Co.	Drilling Field		22-14-108	Coop.	1957	-	do	7	5,200	-	4	4	-	-	-	-	-	Lease water	-	-	-	329
330 Drilling Southeast	Oil and Gas	Hey		2-14-108	-	1958	-	do	-	5,065	-	2	2	-	-	-	-	-	-	-	330		
331 Eagle Creek	Tennessee Gas	Hayes		2-11-108	-	1958	-	do	-	5,420	-	1	1	-	-	-	-	-	-	-	331		
332 Gamma	Cooperative Refinery	Froelich		4-5-108	No	1959	180	do	30	3,250	0	5	1	1	0	0	0	Dakota	150	19	8,046	332	
333 Gamma Northeast	Kawane Oil	do		3-12-108	-	1959	-	Kansas City	-	3,270	-	4	4	-	-	-	-	-	-	-	333		
334 Fairport	Solar Oil Co.	Midland		3-6-12-108	Coop.	1957	160	Lans.-K.C.	4	3,225	0	7	7	0	1	0	0	0	Arbuckle and Kansas City	240	-	-	334
335 Hail	Lincol	Heil		28-14-108	-	1958	-	Kansas City	-	3,300	-	5	5	-	-	-	-	-	-	-	335		
336 Herzog	Midland Oil	Herzog		32-13-108	-	1959	-	do	-	3,230	-	5	5	-	-	-	-	-	-	-	336		
							375																
337 Brungardt	Champlin Oil and Refining	Brungardt		2-11-178; 35,36-10-178	Unit.	1956	237	"Pennsylvanian conglomerate"	7	3,400	0	10	10	0	7	0	0	0	Arbuckle	161	860	33,155	337
338 Genesee-Edwards	Continental Oil	Shengyo-Shunway		9,10-17-68	-	1960	-	Simpson	-	3,150	-	16	16	-	-	-	-	-	-	-	338		
339 Heiken	Westmor Drig.	Stru		86-17-108	-	1959	-	"Conglomerate Sand"	-	3,220	-	4	4	-	-	-	-	-	-	-	339		
							20																
340 Failes-Hantoul	Daniel	Coulter		5,6-18-212	-	1942	-	"Squirrel"	-	650	-	13	13	-	-	-	-	-	-	-	340		
341 do	Gardner Co.	Gardner		22,27-17-212	-	1941	-	"Squirrel"	-	650	-	65	65	-	-	-	-	-	-	-	341		
342 do	General American Oil Co.	Heinrich-Finsh		20,28-20-16-212	No	1951	191	"Squirrel"	20	600	22	46	60	0	76	0	0	0	0	2,087	23,745	342	
343 do	do	do		10-17-212	-	1940	136	do	12	650	40	8	48	0	47	0	0	0	do	28	1,940	9,294</	

DATA ON SECONDARY RECOVE

By Goebel, E.D., Hilpman, P.

State Geological Survey of Kansas

(Includes Crawford

Y PROJECTS IN KANSAS, 1960

Beene, D.L., and Noever, R.J.

Sheet 5

Oil and Gas Investigations No. 24

Woodson Counties)

COUNTY	Average depth to producing zone, feet	Flowing	Pumping	Total	No. producing wells drilled in 1960	No. active injection wells, 1960	No. injection wells drilled in 1960	Medium of injection	Source of water	Average bbl. water injected per well per day	Cumulative secondary oil recovery per developed acre, bbl.	Production attributable to secondary recovery in 1960, bbl.	No.
-	-	-	62	62	-	-	-	-	City water and Mississippian	-	-	-	575
12	500 550	- -	1 164	1 164	23	-	-	15	Fresh and salt water	City and return	15	2,000	26,000 577
15	600	0 -	7 240	7 240	0	2	0	do	Cherokee Shale and return	15	-	4,025	578
-	-	-	-	-	-	-	-	-	-	-	-	-	579
-	-	-	20	20	-	-	-	-	Salt water	Mississippian	-	-	580
10	750 690	- 0	70 2	70 2	-	-	-	-	-	-	-	-	581 582
35	750	0	31	31	5	18	0	do	Oswego	35	0	100	583
30	825	0	8	8	0	5	0	do	Mississippian Lime	75	1,115	13,780	584
25	750	48	87	135	0	82	0	Fresh and salt	do	41	418	3,550	585
25	760	387	19	406	0	374	0	do	Gravel and Return water	41	3,453.68	29,207	586
7	725 800 750	0 - -	6 4 7	6 4 7	0	1	0	Fresh	Upper Formation	-	-	3,600	588 589 590
17	850	-	12	12	0	7	0	Salt water	Kansas City and return	14	565	4,601	591
-	440	-	25	25	-	-	-	-	-	-	-	-	592
-	-	-	10	10	-	-	-	Fresh water	Shallow	-	-	-	593
-	-	-	25	25	-	-	-	do	Surface water	-	-	-	594
-	500	-	17	17	-	-	-	-	-	-	-	-	595
-	475	-	8	8	-	-	-	-	-	-	-	-	596
-	500	-	4	4	-	-	-	-	-	-	-	-	597
-	480	-	17	17	-	-	-	-	-	-	-	-	598
15	500	-	6	6	-	-	-	Salt water	Oswego	-	-	-	599
16	475	0	17	17	2	3	0	Fresh	Fresh well	15	0	-	600
11	790	-	8	8	0	5	0	Salt water	Kansas City and return	31	71	2,269	601
-	680	-	28	28	-	-	-	-	-	-	-	-	602
18-30	750	-	4	4	-	-	-	Fresh and salt water	Oswego	-	-	-	603
	Estimated wells		208	208						Estimated secondary recovery	210,901		
	425	1,117		1,552	498		16				375,975		

COUNTY	8	4,430	0	15	15	0	3	0	Salt water	Mississippian	400	296	* 604
	-	4,420	-	4	4	-	-	-	-	-	-	-	* 605 35,535

COUNTY	250	3,700	-	9	9	0	1	0	Fresh and salt water	Supply well and Lans.-K.C.	477	0	0	606
	28	3,625	0	2	2	0	1	0	Salt water	Lansing Produced	262	416	12,482	607
	8	4,150	-	8	8	-	-	-	do	Dakota water	-	-	-	608
	10	4,175	-	8	8	-	-	-	do	Conglomerate	-	-	-	609
	-	4,260	-	4	4	-	-	-	-	-	-	-	-	610
				31	31		2				Estimated secondary recovery	30,000		
												42,482		

COUNTY	37	3,350	-	4	4	0	2	0	Salt water	Cheyenne Sandstone	6	2	*	611
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DATA ON SECONDARY RECOVERY PROJECTS IN KANSAS, 1960

By Goebel, E. D., Hilpman, P. L., Beene, D. L., and Noever, R. J.

State Geological Survey of Kansas

(Includes Neosho, Cherokee, Woodson, and Cherokee Counties)

Oil and Gas Investigations No. 24

Sheet 5

No.	Field	In-	Ex-	Pro-	Loca-	Coop-	Year-	Total	Produc-	Produc-	Thick-	Average	Total	No. of	No. of	Source	Average	Cumula-		
(Includes Neosho, Cherokee, Woodson, and Cherokee Counties)																				
675	Erie	Carl Besler	Barnhart, Erie, Faust	34,35-28-205	Unit.	1955	-	"Bartlesville"	-	-	62	62	-	-	-	-	-	City water and	-	-
576	do	do	Hudson	21-28-205	-	1959	-	do	-	500	1	1	-	-	-	-	Mississippian	-	-	
577	do	Deerfield Oil Corp.	Erie	19,20-29,30-28-205	No	1952	440	do	12	550	164	164	23	-	-	-	Mississippian	15	2,000	
578	do	J. O. Purvance	Edwards-Purvance	19,20-28-205	Unit.	1949	20	do	16	600	0	7	0	2	0	do	Cherokee Shale and	15	4,025	
679	Humboldt-Chautauk	Aylward	MFA-Chautauk	28,29,32,45,46-185	-	1958	-	-	-	-	240	240	-	-	-	-	return	-	-	
580	do	do	Pioneer Corp. Flood No. 1	20,23-27-198	-	1951	-	-	-	-	20	20	-	-	-	-	-	-	-	
581	do	Belle Air Oil Corp.	Odessa Block	7,18-27-205	No	1955	-	"Bartlesville"	-	-	750	70	-	-	-	-	Salt water	Mississippian	-	
582	do	do	Weiner	4,9-27-185	-	1949	-	do	10	690	0	2	1	1	do	do	-	-	-	
583	do	Buck Brothers	Loren Lease	7,0-28-198	No	1950	80	do	38	750	31	51	5	18	0	do	Oswego	35	100	
584	do	Caddo Oil Co.	N. M. Wells	6,7-28-195	Coop.	1952	107	do	-	-	-	-	-	-	-	-	Mississippian Lime	75	1,115	
585	do	do	do	14,15-27-195	Coop.	1952	57	do	30	825	0	8	0	5	0	do	do	41	418	
586	do	Kansas Drlg. Co.	Chautauk Project	8,4-9,10,15,16-185	Coop.	1959	290	do	25	750	48	87	155	0	82	0	Fresh and salt	Gravel and Return water	41	5,455.68
587	do	do	Russell Unit	6,7-28-195	Coop.	1970	1,151	do	25	760	387	19	406	0	374	0	do	do	38	3,898.23
588	do	Powell Drlg. Co.	Kearan Lease	18,20-28-195	-	-	-	-	-	-	-	-	-	-	-	-	Upper Formation	-	-	
589	do	Sage	Fickie	20-28-185	-	1954	-	do	-	800	4	4	-	-	-	-	-	-	-	
590	do	Weygant	Russman	5-24-185	-	1959	-	do	-	750	7	-	-	-	-	-	-	-	-	
591	Morehead	Creek Oil and Gas Co., Inc.	Morehead Project	18,30-30-185	No	1958	18	do	17	850	-	12	0	7	0	do	0 Salt water	Kansas City and	14	
592	St. Paul-Walnut	Carroll	Butler	30-28-218	-	1958	-	do	-	440	-	25	-	-	-	-	-	-	-	
593	do	Erie Oil	Dent	21,24-28-218	No	1955	-	do	-	-	10	10	-	-	-	-	Fresh water	Shallow	-	
594	do	E. S. Faulkner	Henry Van Leeuwen	35-28-218	No	1956	-	do	-	-	25	25	-	-	-	-	Surface water	-	-	
595	Trent	CMB	Hansen	25-28-205	-	1959	-	do	-	500	17	17	-	-	-	-	-	-	-	
596	do	do	Joy	28-28-205	-	1959	-	do	-	475	8	9	-	-	-	-	-	-	-	
597	do	do	Patte	28-28-205	-	1959	-	do	-	500	4	4	-	-	-	-	-	-	-	
598	do	Marsalis	"Bartlesville"	23-28-205	-	1957	-	do	-	480	17	17	-	-	-	-	-	-	-	
599	do	R and D Oil Lease	Arthur Blame	24-28-205	Unit.	1968	-	do	15	500	6	6	-	-	-	-	Salt water	Oswego	-	
600	do	V. R. Wyatt	V. R. Wyatt Unit	20,21-28-195	No	1960	60	do	16	475	0	17	2	3	0	do	Fresh well	15	600	
601	Urbana	Creek Oil and Gas Co., Inc.	Wells Project	20-28-185	No	1959	46	do	11	780	-	8	0	5	0	do	0 Salt water	Kansas City and return	31	
602	do	Deerfield Oil	Urbana Unit	33,35-28-185	-	1958	-	do	-	680	28	28	-	-	-	-	-	-	-	
603	do	Lewis S. Taylor	Lewis S. Taylor	26,27-28-185	No	1959	-	do	18-30	750	4	4	-	-	-	-	Fresh and salt water	Oswego	-	
									475	1,117	1,582	498					Estimated secondary recovery	210,900	377,375	
Z,225																				
604	Aldrich	Cooperative Refinery Association	Aldrich Pool	13,14,23-24-185	No	1956	360	Mississippian	8	4,450	0	15	0	3	0	do	0 Salt water	Mississippian	400	
605	do	Tennessee Gas	Everett	18-26-185	-	1960	-	do	-	4,420	4	19	4	-	3	-	-	-	-	
																		296	* 604	
																		35,585		
PAWNEE COUNTY																				
606	Benson	Cities Service Oil	Benson-Southeast Lanes.-K.C.	31,32-23-185	Unit.	1958	112	Lans.-K.C.	260	3,700	-	9	0	1	0	do	Fresh and salt water	Supply well and Lans.-K.C.	477	
607	do	Pan American	Benson	19,30-23-185	Coop.	1960	30	Lansing	28	3,625	0	2	0	1	0	do	0 Salt water	Lansing Produced	262	
608	Garfield	Clark Knight Drlg. Co.	Hutchinson Estate	9-23-17W	No	1959	-	Pennsylvanian-Mississippian	8	4,150	-	8	-	-	-	do	do	Dakota water	150	
609	do	Colorado Oil and Gas	Nutkinson "H"	3-25-17W	Coop.	1959	-	Conglomerate	10	4,175	-	8	-	-	-	do	do	Conglomerate	127	
610	Shiley East	National Coop. Refg. Assoc.	Cherokee	7,18-20-185	No	1958	-	Cherokee	-	4,260	-	4	-	-	-	-	-	-	do	
																		1,025	844,475	
																		30,000		
																		42,482		
PHILLIPS COUNTY																				
611	Dayton	Humble Oil and Hesg. Co.	Dayton Unit	25,26,35,36-185	Unit.	1960	150	Toronto and Kansas City Limestones	37	5,350	-	4	4	0	2	0	do	0 Salt water	Cheyenne Sandstone	6
612	Huffman	Thos. H. Allan	Huffman-Batter Unit	3-21-185	Coop.	1960	380	Lans.-K.C.	10	3,300	-	8	0	5	0	do	do	Dakota Sandstone	150	
613	do	Petroleum Management	Davis	35-1-185	Coop.	1960	160	do	-	3,400	-	4	4	0	1	do	do	do	127	
614	do	do	North Huffman-Batter Unit	15,17,20,21-185	No	1959	-	do	165	3,330	-	42	-	-	-	-	-</			

No.	Field	Operator	Project	Location	Cooperative or unitized	Year started	Total gas wells	Gas wells acres	Producing formation	Thickness of producing zone, feet	Average depth to producing zone, feet	Total	Producing wells drilled in 1960	Non active injection wells, 1960	Injection wells drilled in 1960	Medium of injection	Source of water	Average bbl. water injected per well per day	Cumulative secondary oil production, bbl. recovered to recovery in 1960, bbl.	No.		
705	Hall-Gurney	Cooperative Refinery Assoc.	Herbert and Horace Fink	15,16-14-14W	No	1957	280	Lans.-K.C.	17	3,070	0	7	7	0	1	0	Produced water	Produced Lans.-K.C.	350	287	27,295	705
706	do	Duke Drilg.	Boxberger	21-14-14W	-	1956	-	do	-	3,026	-	5	3	-	-	-	-	-	-	-	706	
707	do	Harry Gores	do	15-14-14W	-	1954	-	do	-	2,900	-	5	6	-	-	-	-	-	-	707		
708	do	Theodore Gores	Kastrop	15-16-16-15	-	1958	-	do	-	3,020	-	8	8	-	-	-	-	-	-	708		
709	do	Gulf Oil Corp.	H. A. Fink (Pilot)	15-14-14W	Coop.	1960	-	do	-	3,000	0	3	3	0	1	1	Salt water	Produced	110	-	709	
710	do	Keystone Petroleum	Wiemerseller Repressur	15-14-15W	-	1955	-	Tarkio	-	2,170	-	5	5	-	-	-	-	-	-	710		
711	do	Murfin Drilg. Co.	Tarkio Unit	15-14-14W	-	1959	-	do	-	2,450	-	45	45	-	-	-	-	-	-	711		
712	do	National Cooperative Refinery Association	Rein "A"-Tarkio Flood	19-14-15W	Coop.	1959	70	Tarkio Sand	11	2,425	-	5	6	0	2	0	Salt water	Dekota formation	100	58	4,600	712
713	do	R. F. Nixon	Bond Unit	23-14-15W	No	1960	160	do	5	2,400	0	7	7	0	3	2	Fresh water	Shallow well	128	26.2	4,035	713
714	do	Pan American	Krug	27-25-14-14W	Coop.	1953	480	Lansing	158	5,000	0	18	18	0	0	0	Salt water	Dakota Sand	87	1,455	159,069	714
715	do	do	Ben Rein Lease	25-14-14W	Coop.	1957	120	do	20	2,950	0	5	5	-	-	0	do	Lansing and produced	249	1,845	7,722	715
716	do	Petroleum Management, Inc.	Hall-Gurney	21-14-14W	Coop.	1959	40	Lans.-K.C.	20	3,110	-	2	2	0	1	0	do	Lans.-K.C.	180	889	12,900	716
717	do	R. H. Shields	Gustason	14-15-15W	-	1959	-	Toronto	-	2,840	-	2	2	-	-	-	-	-	-	717		
718	do	Shields Oil	Miller	15-14-15W	-	1960	-	Lans.-K.C.	-	2,900	-	4	4	-	-	-	-	-	-	718		
719	do	Morris Sitrin	Horval	24,25-14-14W	-	1956	-	Kansas City	-	7,600	-	10	10	-	-	-	-	-	-	719		
720	do	Shelly Oil Co.	Hall-Gurney Area	15W-25-14-14W	Coop.	1950	890	Lansing Lime	18	2,450	-	30	30	0	7	0	Salt water	Arbuckle, Dakota, and Lansing	160	264	67,326	720
721	do	do	Hall-Gurney Tarkio	30-14-15W	Coop.	1959	160	Tarkio Sand	10	2,250	-	6	6	0	2	0	do	Dakota	162	13	2,044	721
722	do	Sunray Mid-Continent	Boxberger	30-14-15W	Coop.	1956	80	Lansing	20	2,950	-	3	3	0	1	0	do	Lansing and Cheyenne	369	2,772	20,656	722
723	do	do	Strecker A and B Lansing	25-14-14W	No	1956	167	do	15	2,920	-	5	6	0	1	0	do	Produced from Tarkio	642	437	28,600	723
724	do	do	Strecker A and B Tarkio	25-14-14W	Coop.	1959	145	Tarkio	7	2,257	-	7	7	1	3	0	do	Produced from Tarkio	180	243	35,221	724
725	do	Texaco, Inc.	E. A. Borell	52-14-12W	-	1959	40	Lansing Lime	-	4,100	0	2	2	0	0	0	-	-	11,394	725		
726	do	do	G. Boxberger "A" and "B"	25-14-14W	Coop.	1951	200	do	-	5,100	0	8	8	0	4	0	Salt water	Produced	850	-	29,521	726
727	do	do	R. E. L. and S. S. Boxberger	10,11,14,15-14W	-	1954	230	do	-	5,080	0	11	11	0	6	0	do	do	1,100	-	49,168	727
728	do	do	E. P. Gurney	23-14-14W	Coop.	1955	120	do	-	3,150	0	4	4	0	2	0	do	do	318	-	14,722	728
729	do	do	O. Kaufman	9-15-12W	-	1957	80	do	-	3,000	0	3	3	0	1	0	Salt water	Dakota Sand	366	-	0	729
730	do	do	D. K. Kell	36-14-14W	-	1958	50	do	-	2,900	0	4	4	0	1	0	do	Produced	15	-	0	730
731	do	do	Mohl and Shaffer	18-14-15W	Coop.	1953	220	Tarkio Sand	11	2,325	0	10	10	0	11	0	do	Cheyenne, Dakota, and Produced	940	-	44,692	731
732	do	Woland Corp.	Blair	8-14-15W	-	1956	-	Tarkio	-	2,400	-	4	4	-	-	-	-	-	-	732		
733	do	Frank Wood Drilg. Co.	Reed-Hein	20-15-14-15W	No	1958	-	do	-	2,280	-	10	10	-	-	-	-	-	-	733		
734	Jane	Woodman-Lamontti	Helms	15-15-15-12W	-	1958	-	Kansas City	-	7,600	-	6	6	-	-	-	-	-	-	734		
735	Trapp	Cities Service Petroleum	Sichuan "A" Lans.-K.C.	12,13-15-14W	Coop.	1957	159	Lansing	12	3,090	-	11	11	0	5	0	Salt water	Arbuckle and Lans.-K.C.	285	672	50,971	735
736	do	do	Egg "D" Lans.-K.C.	9-15-15W	Coop.	1960	160	do	28	3,090	0	5	5	0	3	0	do	Arbuckle, Dakota, and Lans.-K.C.	456	15	2,016	736
737	do	Cooperative Refinery Assoc.	Gale Sellars	19-15-15W	No	1960	130	do	25	3,020	0	6	6	0	1	0	do	Produced Lans.-K.C.	-	14.6	1,994	737
738	do	do	George Sellars	20-15-15W	No	1959	160	do	50	3,040	0	7	7	0	1	0	do	Lans.-K.C.	620	109	25,876	738
739	do	Humble Oil	Detrich Gault	7,8-17-18-	-	1950	-	do	-	3,100	-	27	27	-	-	-	-	-	-	739		
740	do	Ibern-Wells	Schultz-Waberg	16-15-15W	-	1960	-	do	-	3,150	-	6	6	-	-	-	-	-	-	740		
741	do	Seal Metal	Lansing	14-15-14W	-	1957	-	do	-	3,140	-	3	3	-	-	-	-	-	-	741		
742	do	National Cooperative	Flepler "B"-Tarkio Flood	2,11-15-14W	No	1956	85	Tarkio	8	2,728	-	8	8	0	1	0	Salt water	Kansas City-Tarkio	370	234	6,055	742
743	do	Refinery Association	Flepler "C"-Kansas City Flood	2,11-15-14W	No	1958	100	Kansas City	12	3,057	-	6	6	0	1	0	do	Arbuckle, Kansas City, Topeka and Toronto	665	76	5,149	743
744	do	Pan American	Northeast Trapp	4-9-15-15W	Coop.	1960	1,030	Lansing	55	3,010	0	10	10	0	9	0	do	Dakota Sand	351	3	2,819	744
745	do	Phillips Petroleum	Reesner	20-15-15W	-	1958	-	Lans.-K.C.	-	3,000	-	3	3	-	-	-	-	-	-	745		
746	do	R. H. Shields	Gross	5-15-15W	-	1956	-	do	-	3,000	-	3	3	-	-	-	-	-	-	746		
747	do	Shields Oil Producers, Inc.	Northeast Trapp	11-15-15-12W	Coop.	1960	160	do	70	2,850	0	7	7	0	3	0	Salt water	Cheyenne and Dakota	300	20.74	3,518	747
748	do	R. H. Shumaker	Michel	1-15-14W	-	1959	-	do	-	3,160	-	2	2	-	-	-	-	-	-	748		
749	do	R. H. Stapp	Rose	10-15-15W	-	1957	-	do	-	3,050	-	3	3	-	-	-	-	-	-	749		
750	do	Shaw Oil Co.	Pain	8-15-15W	-	1956	-	do	-	3,000	-	10	10	-	-	-	-	-	-	750		
751	do	Sunray Petroleum Co.	Northeast Trapp	10-15-15W	Coop.	1960	100	Lans.-K.C.	10	3,050	0	3	3	0	5	0	Salt water	Dakota	500	0	0	751
752	do</																					

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DATA ON SECONDARY RECOVE

By Goebel, E. D., Hilpman, P. L.

State Geological Survey of Kansas

(Includes Neosho th

No.	Field	Operator	Project	Location	Cooperative or unitized	Year started	Total developed acres	Producing formation
NEOS								
575	Erie	Earl Beeler	Barnhart, Ermey, Faust	34,35-28-20E	Unit.	1953	-	"Bartlesville"
576	do	do	Hudson	21-28-20E	-	1959	-	do
577	do	Deerfield Oil Corp.	Erie	24,25-28-19E; 19,20,29,30-28-20E	No	1952	440	do
578	do	J. O. Purvance	Edwards-Purvance	19,20-28-20E	Unit.	1949	20	do
579	Humboldt-Chanute	Aylward	MFA-Chanute	28,29,32,33, 34-27-19E	-	1958	-	-
580	do	do	Pioneer Corp. Flood No. 1	20,29-27-19E	-	1951	-	-
581	do	Belle Air Oil Corp.	Odense Block	7,18-27-20E	No	1953	-	"Bartlesville"
582	do	do	Weiner	4,9-27-18E	-	1949	-	do
583	do	Buck Brothers	Lowen Lease	30-27-19E	No	1960	80	do
584	do	Caddo Oil Co.	W. M. Wells	12-28-18E; 6,7-28-19E	Coop.	1952	107	do
585	do	do	do	14,15-27-19E	Coop.	1952	57	do
586	do	Keas Drlg. Co.	Chanute Project	3,4,9,10,15, 16-27-18E	Coop.	1939	290	do
587	do	do	Russell Unit	6,7-27-19E; 1,2,10,11,12, 14,15,21,22, 23,27,28-27-18E	Coop.	1958	1,151	do
588	do	Powell Drlg. Co.	Keenan Lease	30-27-19E	No	1959	-	do
589	do	Sage	Fickle	20-28-18E	-	1954	-	do
590	do	Weygint	Bussman	34-27-18E; 3-28-18E	-	1959	-	do
591	Morsehead	Creek Oil and Gas Co., Inc.	Morsehead Project	18,30-30-18E	No	1958	18	do
592	St. Paul-Walnut	Carroll	Butler	30-28-21E	-	1958	-	do
593	do	Erie Oil	Dent	21,28-28-21E	No	1953	-	do
594	do	E. S. Faulkner	Henry Van Leeuwen	33-28-21E	No	1955	-	do
595	Trent	CMH	Hazen	23-28-20E	-	1959	-	do
596	do	Joey	Blaine	23-28-20E	-	1959	-	do
597	do	do	Fouts	16-28-20E	-	1959	-	do
598	do	Marsalis	"Bartlesville"	22-28-20E	-	1957	-	do
599	do	R and D Oil Lease	Arthur Blame	24-28-20E	Unit.	1958	-	do
600	do	V. R. Wyatt	V. R. Wyatt Unit	14,15,22-28-20E	No	1960	60	do
601	Urbana	Creek Oil and Gas Co., Inc.	Wells Project	27-28-18E	No	1959	46	do
602	do	Deerfield Oil	Urbana Unit	33,35-28-18E	-	1958	-	do
603	do	Lewis E. Taylor	Lewis E. Taylor	26,27-28-18E	No	1959	-	do
2,269								
NE								
604	Aldrich	Cooperative Refinery Association	Aldrich Pool	13,14,23,24-18-26W	No	1956	360	Mississippian
605	do	Tennessee Gas	Everett	7,8-18-25W	-	1960	-	do
360								
PAW								
606	Benson	Cities Service Oil	Benson-Southeast Lans.-K.C.	31,32-23-15W	Unit.	1958	112	Lans.-K.C.
607	do	Pan American	Benson	19,30-23-15W	Coop.	1960	30	Lansing
608	Garfield	Clark Knight Drlg. Co.	Hutchinson Estate	3-23-17W	No	1959	-	Pennsylvanian-Mississippian
609	do	Colorado Oil and Gas	Hutchinson "H"	3-23-17W	Coop.	1959	-	Mississippian Conglomerate
610	Shiley East	National Coop. Refg. Assoc.	Cherokee	7,18-20-19W	-	1956	-	Cherokee
142								
PHIL								
611	Dayton	Humble Oil and Refg. Co.	Dayton Unit	25,26,35,36-2-19W	Unit.	1960	150	Toronto and Kansas City Limest